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end

an optical reflection, and a second face in contact with said ends of said second and third optical fibers, said crystal oriented such that and having a thickness between said first and second faces selected such that a first component of said optical beam having a first polarization exiting said crystal at said second face enters said end of said second optical fiber along said second optical axis and a second component of said optical beam having a second polarization orthogonal to the polarization of said first polarization exiting said crystal at said second face enters said end of said third optical fiber along said third optical axis.

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- 3. 'The optical polarization beam splitter of claim 2 wherein said second and third optical fibers are polarization maintaining fibers.
- 4. The optical polarization beam splitter of claim 2 wherein said second optical axis and said third optical axis are spaced apart by a distance of less than 2 mm.
- 5. The optical polarization beam splitter of claim 2 disposed in a package having a length of less than about 50mm and a diameter of less than about 10mm.
- 6. The optical polarization beam splitter of claim 2 disposed in a package having a length of no more than about 20mm and a diameter of no more than about 5.5mm.
- 22. (Amended) An optical polarization beam splitter comprising:
 - a first optical fiber having an end defining a first optical axis;
 - a second optical fiber having an end defiging a second optical axis;
- a third optical fiber having an end defining a third optical axis parallel to and spaced apart from said second optical axis;
- a collimating lens disposed along said first optical axis positioned to form a collimated optical beam from said first optical fiber:
 - a focusing lens disposed along/a path of said collimated optical beam;
- a birefringent walk-off crystal having a first face adjacent to said focusing lens said first face located at a focal plane of said focusing lens with an angle to said first optical axis to reduce an optical reflection and a second face in contact with said ends of said second and third optical fibers, said crystal oriented such that said first optical axis is not normal to said crystal, said

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crystal oriented such that and having a thickness between said first and second faces selected such that a first component of said optical beam having a first polarization exiting said birefringent walk-off crystal at said second face enters said end of said second optical fiber along said second optical axis and a second component of said optical beam having a second polarization orthogonal to the polarization of said first polarization exiting said crystal at said second face enters said third optical fiber along said third optical axis.

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23. (Amended) The optical polarization beam splitter of claim 22 wherein said second and third optical fibers are polarization maintaining fibers.

- 24. (Amended) The optical polarization beam splitter of claim 22 wherein said second optical axis and said third optical axis are spaced apart by a distance of less than 2mm.
- 25. (Amended) The optical polarization beam splitter of claim 22 disposed in a package having a length of less than about 50mm and a diameter of less than about 10mm.
- 26. (Amended) The optical polarization beam splitter of claim 22 disposed in a package having a length of about 36mm and a diameter of about 5.5mm.
- 27. (Amended) An optical polarization beam splitter comprising:
 - a first optical fiber having an end defining a first optical axis;
- a second optical fiber having an end defining a second optical axis distinct from said first optical axis;
- a third optical fiber having an end defining a third optical axis distinct from both said first and second optical axes, said third axis is parallel to and spaced apart from said second optical axis;
- a collimating lens disposed along said first optical axis positioned to form a collimated optical beam from said first optical fiber;
 - a focusing lens disposed along a path of said collimated optical beam; and
 - a birefringent walk-off crystal having a first face adjacent to said focusing lens and

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located at a focal plane of said focusing lens with an angle to said first optical axis to reduce an optical reflection, and a second face in contact with said ends of said second and third optical fibers.

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28. (Amended) The optical polarization beam splitter of claim 27 wherein said birefringent walk-off crystal is oriented at a non-normal angle to said first optical axis.

- 29. (Amended) The optical polarization beam splitter of claim 27 wherein said birefringent walk-off crystal is oriented such that a first component of said optical beam having a first polarization exiting said birefringent walk-off crystal at said second face enters said end of said second optical fiber along said second optical axis, and a second component of said optical beam having a second polarization orthogonal to the polarization of said first polarization exiting said crystal at said second face enters said third optical fiber along said third optical axis.
- 30. (Amended) The optical polarization beam splitter of claim 29 wherein said second and third optical fibers are polarization maintaining fibers.
- 31. (Amended) The optical polarization beam splitter of claim 29 wherein said second optical axis and said third optical axis are spaced apart by a distance of less than 2 mm.
- 32. (Amended) The optical polarization beam splitter of claim 29 disposed in a package having a length of less than about 50mm and a diameter of less than about 10 mm.
- 33. (Amended) An optical polarization beam splitter comprising:

 means for defining a first optical axis;

 means for defining a second optical axis distinct from said first optical axis;

 means for defining a third optical axis distinct from both said first and second optical axes, said third axis is parallel to and spaced apart from said second optical axis;

means for collimating an optical beam disposed along said first optical axis positioned to form a collimated optical beam from said first optical axis defining means;

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